Government of
Saskatchewan

Interim Annual Report
1986

Saskatchewan Health
Vital Statistics

3475 Albert Street
Regina, Saskatchewan
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Department of Health

To the Honourable F. W. Johnson
Lieutenant Governor of Saskatchewan

May It Please Your Honour:

I have the honour to present herewith, for your consideration, the Interim Report on Saskatchewan Vital Statistics for the calendar year 1986.

Respectfully submitted,

George McLeod
Minister of Health

Department of Health

To the Honourable George McLeod
Minister of Health

Sir:

I have the honour to forward herewith the Interim Report on Saskatchewan Vital Statistics for the calendar year 1986.

This interim report presents a concise record of those vital events which occurred in Saskatchewan during the calendar year 1986.

The Final Vital Statistics Annual Report will be published following the Department of Health's receipt of additional information from Statistics Canada in Ottawa. For this reason, the data presented in this Vital Statistics Interim Report may not be reconciled with the information which will be presented in the Final Vital Statistics Annual Report.

Respectfully submitted

Walter Podiluk
Deputy Minister of Health

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Terms and Definitions

A summary of symbols, definitions, and the method of computing rates used in this report are given below.

Definitions

Population	This report contains postcensal estimates for 1982 - 1985 and final census figures for 1981 and 1986.
Live Births	Infants born alive, i.e., excluding stillbirths.
Stillbirths	Unless otherwise indicated, foetal deaths of 20 or more weeks' gestation.
Deaths	Excludes stillbirths.
Infant Deaths	Deaths under 1 year of age.
Neonatal Deaths	Deaths under 28 days (4 weeks) of age.
Perinatal Deaths	Foetal deaths of 20 or more weeks' gestation plus infant deaths under 7 days (1 week) of age.
Natural Increase	Excess of births over deaths.

Rates (unless otherwise indicated, computed as follows)

Live Births	: per 1,000 population
Stillbirths	: per 1,000 live births
Infant	: per 1,000 live births
Neonatal	: per 1,000 live births
Perinatal	: per 1,000 live births and stillbirths

Causes of Death

All Causes	: per 100,000 population
Infant	: per 1,000 live births
Marriages	: per 1,000 population
Divorces	: per 100,000 population
Natural Increase	: per 1,000 population

Notes

1. Causes of death are classified according to the 9th (1975) Revision of the International Classification of Diseases, Injuries and Causes of Death, which was put into effect on January 1, 1979.

Introduction

The Vital Statistics Interim Report presents a concise record of those vital events which occurred in Saskatchewan during the calendar year 1986. The Interim Report has been prepared in response to the requirements contained in the Tabling of Documents Act (1973). The present methods utilized in the collection of data for the Vital Statistics Annual Report do not permit the tabling of the Annual Report within the time frame established by this legislation. The Vital Statistics Annual Report will be published following the Department of Health's receipt of the necessary information from Statistics Canada in Ottawa.

The Vital Statistics Interim Report - 1986 records vital events by place of occurrence for 1986 (vital events which occurred in Saskatchewan in 1986). It includes for example, births to Saskatchewan residents who were in the province at the time of giving birth and residents of other provinces (or countries) who were in Saskatchewan at the time of giving birth. The data in this report are based on original registration forms and do not include amendments. The Vital Statistics Annual Report, on the other hand, records vital events by place of residence (vital events involving Saskatchewan residents whether or not the resident was in the province at the time of the event) and includes amended information. The vital events recorded in this report for years previous to 1986 are by place of residence.

Table 1. Summary of Vital Statistics, Saskatchewan, 1981 - 1986

Item	1981	1982	1983	1984	1985	1986*
Population	968	981	993	1,006	1,020	1,010
Live Births	17,209	17,722	17,847	18,014	18,162	17,507
Rate++	17.8	18.1	18.0	17.9	17.8	17.3
Deaths	7,523	8,202	7,611	7,710	8,031	8,012
Rate++	7.8	8.4	7.7	7.7	7.9	7.9
Natural Increase	9,686	9,520	10,236	10,304	10,131	9,495
Rate++	10.0	9.7	10.3	10.2	9.9	9.4
Infant Deaths	203	186	180	169	200	154
Rate**	11.8	10.5	10.1	9.4	11.0	8.8
Neonatal Deaths	112	113	103	101	123	95
Rate**	6.5	6.4	5.8	5.6	6.8	5.4
Perinatal Deaths						
20+ weeks gestation	230	231	216	214	207	180
Rate+++	13.3	12.9	12.0	11.8	11.3	10.2
28+ weeks gestation	196	195	188	173	166	145
Rate+++	11.3	10.9	10.5	9.6	9.1	8.2
Stillbirths						
20+ weeks gest.	137	139	126	128	111	104
Rate**	8.0	7.8	7.0	7.0	6.1	5.9
28+ weeks gest.	103	103	98	87	70	69
Rate**	6.0	5.8	5.5	4.8	3.8	3.9
Marriages	7,329	7,491	7,504	7,213	7,132	6,821
Rate++	7.6	7.6	7.6	7.2	7.0	6.8
Divorces and Annulments	1,905	1,819	2,000	1,988	1,927	2,428

* Preliminary figures - See Introduction, page 3
** Rate per 1,000 live births
++ Rate per 1,000 population
+++Rate per 1,000 total births (live births and stillbirths)

A. Population

1. The Historical Trend

The census population of 1,010,198 for 1986 is a decrease of 0.91 per cent over the 1985 estimated population of 1,019,500.

Table 2. The Historical Trend in Saskatchewan Population

Year	Population (000's)
1931	922
1941	896
1951	832
1961	925
1971	926
1981	968
1985	1,020*
1986	1,010

* Statistics Canada Postcensal Estimate.
All other figures are final census.

2. The Percentage Distribution of the Total Population

During the past 30 years, the proportion of older people (65 years of age and over) has been increasing in Canada as a whole and in Saskatchewan. In Saskatchewan, however, the proportion of persons 65 years of age and over is greater than in Canada as a whole (12.5 percent and 10.6 percent respectively).

Table 3. Distribution of Total Population, Saskatchewan, 1986 (000's)*

Age Group	Canada		Saskatchewan	
	Number	Percent	Number	Percent
Total	25,591.1	100.0	1,021.0	100.0
0-19	7,379.5	28.8	327.8	32.1
20-44	10,579.8	41.3	385.0	37.7
45-64	4,906.7	19.2	180.2	17.6
65+	2,725.1	10.6	128.0	12.5

*As population data by age groups was not available from the 1986 Census at the time of publication, this table was prepared using 1986 Postcensal Estimates (based on the 1981 Census)

Table 4. Percentage Distribution by Sex, Saskatchewan, for Selected Years

Year	Male	Female	Males per 100 Females
1921	54.6	45.4	120
1931	54.2	45.8	119
1941	53.3	46.7	114
1951	52.2	47.8	109
1961	51.8	48.2	108
1971	50.8	49.2	103
1981	50.2	49.8	101
1986	50.0	50.0	100

B. Births

1. Live Births

During the year 1986 a total of 17,507 live births occurred in the Province of Saskatchewan. This total includes births to Saskatchewan mothers residing in the Province of Saskatchewan at the time of giving birth and those births occurring to mothers who normally reside outside the province but who were in Saskatchewan at the time of giving birth.

The total of 17,507 live births represents a birth rate of 17.3 live births per 1,000 population, slightly lower than last year's birth rate.

The 1985 live birth rates for Saskatchewan, for Canada, and for the Provinces are shown below for comparison.

Table 5. Live Birth Rates per 1,000 Population, Canada and Provinces, 1985

Province	Rate
Canada	14.8
Newfoundland	14.6
Prince Edward Island	15.8
Nova Scotia	14.1
New Brunswick	14.1
Quebec	13.1
Ontario	14.6
Manitoba	16.0
Saskatchewan	17.8
Alberta	18.6
British Columbia	14.9

2. Stillbirths

During the year 1986 a total of 104 stillbirths occurred in the province. The definition of occurrence is given in the introduction. The 104 stillbirths occurred after 20 or more weeks gestation; 69 of the stillbirths occurred after 28 or more weeks gestation. These two totals represent rates of 5.9 and 3.9 stillbirths per 1,000 live births, respectively.

C. Deaths

During the year 1986 a total of 8,012 deaths occurred within the Province of Saskatchewan. This represents a crude death rate of 7.9 deaths per 1,000 population, the same as that experienced in 1985.

The 1985 crude death rates for Saskatchewan, for Canada, and for the provinces are shown in the table below for comparison.

Table 6. Crude Death Rates per 1,000 Population, Canada and Provinces, 1985

Province	Rate
Canada	7.2
Newfoundland	6.1
Prince Edward Island	8.7
Nova Scotia	8.3
New Brunswick	7.3
Quebec	6.9
Ontario	7.4
Manitoba	8.2
Saskatchewan	7.9
Alberta	5.6
British Columbia	7.4

Table 7. Age Specific Death Rates per 1,000 Population, Saskatchewan, 1975 - 1985

Year	All Ages	Age Group Under 5	5-14	15-24	25-44	45-64	65+
1975	8.5	4.6	0.4	1.4	1.7	7.5	53.0
1976	8.5	3.8	0.4	1.4	1.8	8.0	52.5
1977	8.1	4.0	0.4	1.6	1.6	7.0	50.3
1978	8.2	4.0	0.5	1.3	1.6	7.3	50.2
1979	7.7	3.2	0.3	1.4	1.6	7.1	46.3
1980	8.0	3.0	0.3	1.2	1.5	7.2	48.1
1981	7.8	3.1	0.4	1.2	1.4	7.1	46.1
1982	8.4	2.6	0.3	1.3	1.3	7.7	49.8
1983	7.7	2.5	0.3	1.1	1.3	6.7	45.6
1984	7.7	2.4	0.2	0.9	1.3	6.8	45.0
1985	7.9	2.7	0.3	1.0	1.2	7.0	47.0

Table 8. Number of Deaths by Cause Occurring in Saskatchewan in 1986

	Deaths	Percent	Rate
All Causes of Death	8,012	100.0	793.1
02 Tuberculosis	7	0.1	0.7
03 Other Bacterial Diseases	18	0.2	1.8
04 Viral Diseases	5	0.1	0.5
07 Other Infectious, Parasitic Diseases	8	0.1	0.8
08 M N of Lip, Oral, Cavity, Pharnyx	32	0.4	3.2
09 M N of Digestive Organs, Peritoneum	520	6.5	51.5
10 M N of Respiratory & Related Organs	448	5.6	44.3
11 M N of Bone, Skin, Breast	188	2.3	18.6
12 M N of Genitourinary Organs	339	4.2	33.6
13 M N of Other & Unspecified Sites	177	2.2	17.5
14 M N of Lymph & Haemopoietic Tissue	168	2.1	16.6
15 Benign Neoplasm	6	0.1	0.6
17 Other & Unspecified Neoplasm	18	0.2	1.8
18 Endocrine & Metabolic Diseases	187	2.3	18.5
19 Nutritional Deficiencies	7	0.1	0.7
20 Diseases of Blood/Forming Organs	43	0.5	4.3
21 Mental Disorders	88	1.1	8.7
22 Diseases of the Nervous System	159	2.0	15.7
25 Rheumatic Fever/Heart Disease	29	0.4	2.9
26 Hypertensive Disease	53	0.7	5.2
27 Ischaemic Heart Disease	1,966	24.6	194.6
28 Pulmonary & Other Heart Disease	480	6.0	47.5
29 Cerebrovascular Disease	629	7.9	62.3
30 Other Diseases of Circulatory System	268	3.3	26.5
31 Diseases of Upper Respiratory Tract	5	0.1	0.5
32 Other Diseases of Respiratory System	815	10.2	80.7
34 Other Parts of Digestive System	323	4.0	32.0
35 Diseases of Urinary System	100	1.2	9.9
36 Diseases of Male Genital Organs	9	0.1	0.9
37 Diseases of Female Genital Organs	2	0.0	0.2
39 Direct Obstetric Causes	1	0.0	0.1
42 Diseases of Skin	1	0.0	0.1
43 Musculoskeletal & Connective Tissue	41	0.5	4.1
44 Congenital Anomalies	61	0.8	6.0
45 Conditions in Perinatal Period	65	0.8	6.4
46 Symptoms & Ill-Defined Conditions	69	0.9	6.8
E47 Transport Accidents	267	3.3	26.4
E48 Accidental Poisoning	26	0.3	2.6
E49 Misadventures During Medical Care	4	0.0	0.4
E50 Accidental Falls	96	1.2	9.5
E51 Accidents Caused by Fires & Flames	17	0.2	1.7
E52 Other Accidents, Late Effects	94	1.2	9.3
E53 Effects of Drugs and Medication	1	0.0	0.1
E54 Suicide and Self-Inflicted Injury	139	1.7	13.8
E55 Homicide & Intentional Injury	21	0.3	2.1
E56 Other Violence	12	0.1	1.2

*Crude Rate per 100,000 population (Statistics Canada Population Base)

Accidents and Violence

During the year 1986 a total of 505 deaths due to accidents occurred in the Province of Saskatchewan. This represents a rate of 50.0 deaths by accident per 100,000 population in 1986 as compared to a rate of 47.8 deaths by accident per 100,000 population in 1985.

The number of suicides which occurred in Saskatchewan during 1986 was 139, a rate of 13.8 suicides per 100,000 population, up from the 1985 number of 130.

There were 21 homicides in Saskatchewan in 1986, a decrease from the 1985 number of 24 homicides.

D. Natural Increase in Population

In 1986 the natural increase was 9,495, however, the population decreased from 1,019,500 in 1985 to 1,010,198 in 1986.

Table 9. Natural Increase and Actual Increase, Saskatchewan, 1975 - 1985*

Year	Population	Live Births	Deaths	Natural Increase Number	Natural Increase Rate per 1,000 pop	Est. Actual Incr. Number	Est. Actual Incr. Rate per 1,000 pop
1975	907,400	15,265	7,672	7,593	8.4	7,700	8.5
1976	921,325	15,969	7,809	8,160	8.9	13,925	15.1
1977	934,600	16,547	7,594	8,953	9.6	13,275	14.2
1978	943,500	16,551	7,749	8,802	9.3	8,900	9.4
1979	952,500	16,944	7,369	9,575	10.0	9,000	9.4
1980	961,100	17,057	7,651	9,406	9.8	8,600	8.9
1981	968,313	17,209	7,523	9,686	10.0	7,213	7.4
1982	981,400	17,759	8,173	9,586	9.8	13,087	13.3
1983	992,700	17,823	7,620	10,203	10.3	11,300	11.4
1984	1,006,200	18,090	7,712	10,378	10.3	13,500	13.4
1985	1,019,500	18,233	8,003	10,230	10.0	13,300	13.0
1986	1,010,198	17,507	8,012	9,495	9.4	-9,302	-9.2

* See footnotes in Table 1.

E. Marriages

During the year 1986 a total of 6,821 marriages occurred in Saskatchewan. This total represents a rate of 6.8 marriages per 1,000 population. Marriage rates for Canada, the Provinces, and Saskatchewan for 1985 are given below for comparison.

Table 10. Marriage Rate per 1,000 Population, Canada and the Provinces, 1985

Province	Rate
Canada	7.3
Newfoundland	5.5
Prince Edward Island	7.5
Nova Scotia	7.7
New Brunswick	7.4
Quebec	5.6
Ontario	8.0
Manitoba	7.8
Saskatchewan	7.0
Alberta	8.4
British Columbia	7.7

F. Divorces

In 1986 a total of 2,428 divorces and annulments were registered under the Vital Statistics Act in Saskatchewan at the time of publication. This does not represent the total number of divorce petitions filed in 1986 since some petitions are not yet finalized.

G. Life Expectancy

A life expectancy table is, in effect, the history of mortality of 100,000 male babies and of 100,000 female babies born at the same time. Life expectancy figures provide a graphic picture of the extent to which the saving of lives has gradually prolonged the average expectation of life and are a fairly good reflection of the general health and survival conditions at the time of their compilation.

According to the Saskatchewan life table compiled on the basis of the 1981 census, the life expectancy at birth reached an all time peak for females, 79.61 years, and for males, 72.43 years. The gain in life expectancy is greater in females. A sharp rise in the probability of death begins at age 56 for males and at 65 for females. The decrease in life expectancy is greater for males than for females. (The Saskatchewan life table based on the 1986 Census was not available at the time of publication).

Table 11. Life Expectancy, Saskatchewan, 1941, 1961, 1971, 1981

	Life Expectancy				Gain or Loss In Life Expectancy		
	1941	1961	1971	1981	1961 over 1941	1971 over 1961	1981 over 1971
				Males			
At Birth	65.43	70.27	70.50	72.43	4.84	0.23	1.93
20	51.28	53.49	53.40	54.35	2.21	-0.09	0.95
40	33.32	34.99	35.15	35.92	1.67	0.16	0.77
60	16.82	18.10	18.49	19.09	1.28	0.39	0.60
80	5.76	6.31	6.87	7.16	0.55	0.56	0.29
				Females			
At Birth	68.19	75.93	77.36	79.61	7.74	1.43	2.25
20	53.08	58.35	59.41	60.85	5.27	1.06	1.44
40	34.96	39.09	40.32	41.64	4.13	1.23	1.32
60	18.26	21.09	22.46	23.65	2.83	1.37	1.19
80	6.38	7.29	7.94	8.94	0.91	0.65	1.00

Note: Source of figures for 1941: Life Tables for Canada and Regions, 1941 and 1931, D.B.S. Ottawa 1947. These figures have been calculated for the prairie provinces. The figures for 1961 and 1971 were calculated for Saskatchewan by the Department of Health. The figures for 1981 were taken from the Statistics Canada publication, Life Tables, Canada and Provinces, 1980-1982.

H. Adoptions

There were 594 adoptions registered in Saskatchewan during 1986, compared to 644 adoptions in 1985. The total of 594 adoptions registered includes out-of-province adoptions of persons born in Saskatchewan as well as adoptions in Saskatchewan of persons born elsewhere.

I. Legal Changes of Name

During 1986 a total of 1,090 legal changes of name were registered in Saskatchewan. This represents a slight increase over the 1,070 changes of name registered in 1985. The total of 1,090 does not reflect the number of persons who changed their name as each application may affect more than one person and in some cases, an entire family.